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(54) Device for fixing to a bulkhead the shielding conduit of a control cable

(57) A tubular ferrule 1, intended to receive the end of a shielding conduit 4 of a control cable 5, and an annular locking component 2, intended to be introduced into an opening 11 in a bulkhead 12, are made as a single piece by moulding in plastic, the ferrule 1 incorporating an extension 8 with a conical end 15 normally lying partially within the bore 19 of the locking component 2 and joined to the latter by breakable radial fingers 18.

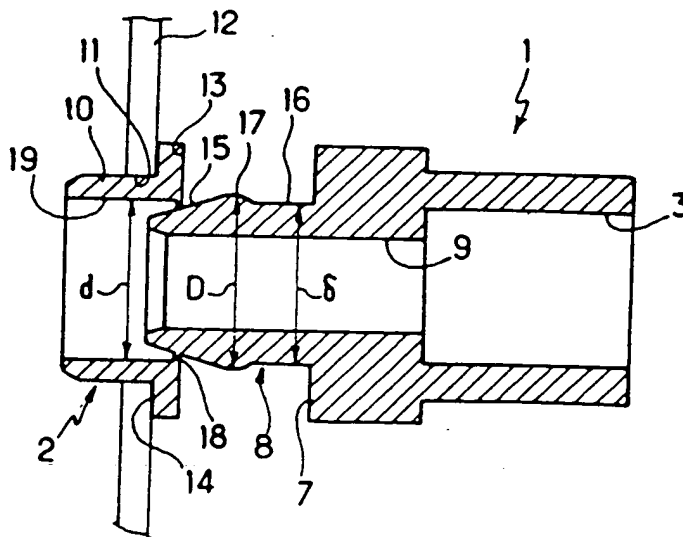
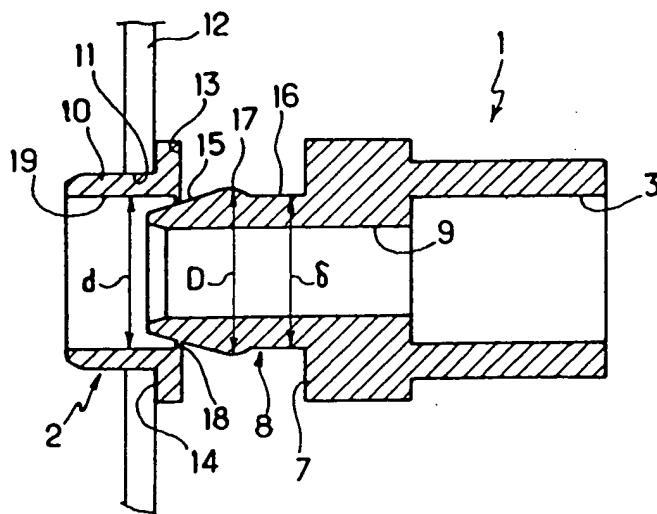
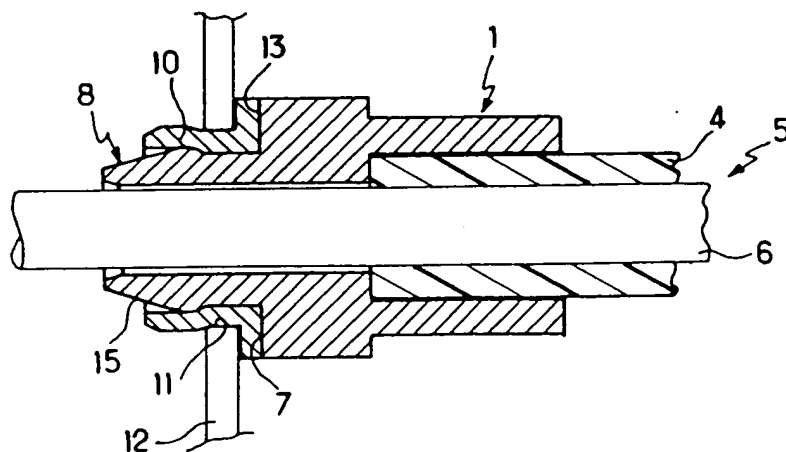


FIG. 1

FIG. 1FIG. 2

tive movement between the ferrule 1 and the locking component 2. Typically, the fingers 18, of radial length of the order of 0.5 mm, are three in number and are spaced angularly about the common axis of the ferrule 1 and the locking component 2. With such an arrangement it will be understood that, after placing the locking component 2 in position in the opening 11 in the bulkhead 12, as shown in Fig. 1, and by exerting a pressure upon the ferrule 1 in the direction towards the locking component 2, the fingers 18 rupture and the profiled end 15 of the extension 8 of the ferrule forcibly enters the locking component 2 so as to adopt the locked position shown in Fig. 2 with the shoulder 7 of ferrule 1 in abutment against the collar 13 which is itself in abutment against the surface of the bulkhead 12 and with the end of the mounting portion 10 of the locking component 2 away from the collar 13, which is deformed radially outwards owing to the prominence 17 of the extension 8 of the ferrule 1, thus locking the ferrule 1 and the locking component 10 onto the bulkhead 12.

Although the present invention is described above relative to a particular embodiment, the invention is not limited by it but on the contrary is capable of modifications and variants which will be apparent to a person versed in the art. Thus, the locking component 2 may be provided, in the region away from the collar 13, with an end portion folded inwards forming a scraper in accordance with the provisions of the abovementioned document FR-A-2,381,937.

CLAIMS

1. A device for fixing to a bulkhead the shielding conduit of a control cable, comprising a tubular ferrule, having a chamber intended to receive the end of the shielding conduit and having an extension with a peripheral rim, and a tubular locking component incorporating a collar and a mounting portion which is essentially cylindrical and which is intended to be positioned in an opening in the bulkhead and to receive with deformation the extension of the ferrule in order to fix the latter firmly to the bulkhead, characterized in that the ferrule and the locking component consist of a single piece by moulding in plastic, the extension of the ferrule comprising, in front of said rim a conical end normally extending partially within the locking component and joined to the latter by breakable fingers.

2. Device according to claim 1, characterized in that the mounting portion of the locking component has an internal wall which is essentially cylindrical, and in that the conical end of the extension is connected, away from the locking component, to an intermediate cylindrical zone by a rounded peripheral prominence whose outside diameter is greater than

the inside diameter of the mounting portion.

3. Device according to claim 2, characterized in that the intermediate cylindrical zone has an outside diameter which is essentially equal to the inside diameter of the mounting portion of the locking component.

4. A device for fixing to a bulkhead the shielding conduit of a control cable, substantially as hereinbefore described with reference to and as shown in the accompanying drawings.

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